

$\langle \text{program} \rangle ::= \langle \text{expression} \rangle \langle \text{program} \rangle \mid ""$
 $\langle \text{expression} \rangle ::= \langle \text{expression_opt} \rangle \langle \text{line_end} \rangle$
 $\langle \text{expression_opt} \rangle ::= \langle \text{definition} \rangle \mid \langle \text{term} \rangle \mid ""$
 $\langle \text{definition} \rangle ::= \langle \text{declaration} \rangle \langle \text{whitespace} \rangle "=" \langle \text{whitespace} \rangle \langle \text{term} \rangle$
 $\langle \text{declaration} \rangle ::= "let" \langle \text{whitespace} \rangle \langle \text{variable} \rangle$
 $\langle \text{term} \rangle ::= \langle \text{application} \rangle \mid \langle \text{abstraction} \rangle$
 $\langle \text{application} \rangle ::= \langle \text{operand} \rangle \langle \text{application_opt} \rangle$
 $\langle \text{application_opt} \rangle ::= \langle \text{application_opt}' \rangle \mid \langle \text{application_opt}'' \rangle \mid ""$
 $\langle \text{application_opt}' \rangle ::= \langle \text{whitespace} \rangle \langle \text{operand} \rangle \langle \text{application_opt} \rangle$
 $\langle \text{application_opt}'' \rangle ::= \langle \text{whitespace} \rangle \langle \text{abstraction} \rangle$
 $\langle \text{abstraction} \rangle ::= "\backslash" \langle \text{variables} \rangle "." \langle \text{term} \rangle$
 $\langle \text{operand} \rangle ::= \langle \text{variable} \rangle \mid \langle \text{term_par} \rangle$
 $\langle \text{term_par} \rangle ::= "(" \langle \text{whitespace_opt} \rangle \langle \text{term} \rangle \langle \text{whitespace_opt} \rangle ")"$
 $\langle \text{variables} \rangle ::= \langle \text{variable} \rangle \langle \text{variables_opt} \rangle$
 $\langle \text{variables_opt} \rangle ::= \langle \text{whitespace} \rangle \langle \text{variable} \rangle \langle \text{variables_opt} \rangle \mid ""$
 $\langle \text{variable} \rangle ::= \langle \text{letter} \rangle \langle \text{variable_opt} \rangle$
 $\langle \text{variable_opt} \rangle ::= \langle \text{symbol} \rangle \langle \text{variable_opt} \rangle \mid ""$
 $\langle \text{symbol} \rangle ::= \langle \text{letter} \rangle \mid \langle \text{digit} \rangle \mid "_"$
 $\langle \text{whitespace} \rangle ::= " " \langle \text{whitespace_opt} \rangle$
 $\langle \text{whitespace_opt} \rangle ::= " " \langle \text{whitespace_opt} \rangle \mid ""$
 $\langle \text{line_end} \rangle ::= \langle \text{whitespace_opt} \rangle (" \backslash n" \mid " \backslash 0")$